# FACILITY NAME: River Ridge Association Inc. VPDES PERMIT NUMBER: VA0028029 VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

### SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

|    | •                  | ch sections to fill out.   |  |  |  |  |  |
|----|--------------------|--|--|--|--|--|--|
| 1. | All a <sub>l</sub> | All applicants must complete Section A (General Information).  |  |  |  |  |  |
| 2. | Will               | Will this facility generate sewage sludge? _X_Yes _No  |  |  |  |  |  |
|    | Will t             | this facility derive a material from sewage sludge?Yes _X_No   |  |  |  |  |  |
|    |                    | answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material red From Sewage Sludge).  |  |  |  |  |  |
| 3. | Will               | this facility apply sewage sludge to the land?Yes _X_No  |  |  |  |  |  |
|    |                    | Will sewage sludge from this facility be applied to the land?Yes _X_No If you answered No to both questions above, skip Section C.   |  |  |  |  |  |
|    | If you             | If you answered Yes to either, answer the following three questions:   |  |  |  |  |  |
|    | a.                 | Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? Yes _X_No |  |  |  |  |  |
|    | b.                 | Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?Yes _X_No  |  |  |  |  |  |
|    | c.                 | Will sewage sludge from this facility be sent to another facility for treatment or blending?Yes _X_No  |  |  |  |  |  |
|    | If you             | answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).   |  |  |  |  |  |
|    | If you             | answered Yes to a, b or c, skip Section C.   |  |  |  |  |  |
| 4. | Do yo              | Do you own or operate a surface disposal site?Yes _X_No  |  |  |  |  |  |
|    | If Yes             | s, complete Section D (Surface Disposal).  |  |  |  |  |  |
|    |                    |  |  |  |  |  |  |
|    |                    |  |  |  |  |  |  |

# SECTION A. GENERAL INFORMATION

All applicants must complete this section.

|                      | lity Information.   |
|----------------------|---|
| a.                   | Facility name: River Ridge Association WWTP   |
| b.                   | Contact person: Thomas Crowder  |
|                      | Title: General Manager  |
|                      | Phone: (434) <u>636-5492</u>  |
| c.                   | Mailing address:  |
|                      | Street or P.O. Box: P. O. Box 40  |
|                      | City or Town: Bracey State: VA Zip: 23919   |
| d.                   | Facility location:  |
|                      | Street or Route #:  |
|                      | County: Mecklenburg   |
|                      | City or Town: Bracey State: VA Zip: 23919   |
| e.                   | Is this facility a Class I sludge management facility?Yes _X_No   |
| f.                   | Facility design flow rate:0.15 mgd  |
| g.                   | Total population served: approximately 1,000 intermittently   |
| h.                   | Indicate the type of facility:  |
|                      | Publicly owned treatment works (POTW)   |
|                      | _X_Privately owned treatment works  |
|                      | Federally owned treatment works   |
|                      |   |
|                      | Blending or treatment operation   |
|                      | Blending or treatment operation Surface disposal site   |
|                      |   |
| Appl                 | Surface disposal site   |
| Appl                 | Surface disposal site Other (describe): icant Information. If the applicant is different from the above, provide the following:   |
| a.                   | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  |
| a.<br>b.             | <ul> <li>Surface disposal site</li> <li>Other (describe):</li> <li>icant Information. If the applicant is different from the above, provide the following:         Applicant name: River Ridge Association WWTP         Mailing address:     </li> </ul>  |
| a.<br>b.             | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40   |
| a.<br>b.<br>c.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town: Bracey State: VA Zip: 23919  |
| a.<br>b.<br>c.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town:Bracey State:VA Zip: 23919  Contact person: Thomas Crowder  |
| a.<br>b.<br>c.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town:Bracey State:VA Zip: 23919  Contact person: Thomas Crowder  Title:General Manager   |
| a.<br>b.<br>c.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town: Bracey State: VA Zip: 23919  Contact person: Thomas Crowder  Title: General Manager  Phone: (434) 636-5492   |
| a.<br>b.<br>c.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:     Applicant name: River Ridge Association WWTP     Mailing address:     Street or P.O. Box: P.O. Box 40     City or Town: Bracey State: VA Zip: 23919     Contact person: Thomas Crowder     Title: General Manager     Phone: (434) 636-5492     Is the applicant the owner or operator (or both) of this facility?   |
| a. b. c. d.          | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town: Bracey State:VA Zip: 23919  Contact person: Thomas Crowder  Title: General Manager  Phone:(434).636-5492  Is the applicant the owner or operator (or both) of this facility? Xowner X operator   |
| a.<br>b.<br>c.<br>d. | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:     Applicant name: River Ridge Association WWTP     Mailing address:     Street or P.O. Box: P.O. Box 40     City or Town: Bracey State:VA Zip: 23919     Contact person: Thomas Crowder     Title: General Manager     Phone:(434).636-5492     Is the applicant the owner or operator (or both) of this facility?     X owner   |
| a. b. c. d. d.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town: Bracey State:VA Zip: 23919  Contact person: Thomas Crowder  Title: General Manager  Phone:(434).636-5492  Is the applicant the owner or operator (or both) of this facility? Xowner X operator  Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) X facility applicant   |
| a. b. c. d. d.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town: Bracey State:VA Zip: 23919  Contact person: Thomas Crowder  Title: General Manager  Phone:(434).636-5492  Is the applicant the owner or operator (or both) of this facility?  X owner X operator  Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) X facility applicant   |
| a. b. c. d. e.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address: Street or P.O. Box: P.O. Box 40 City or Town: Bracey State: VA Zip: 23919 Contact person: Thomas Crowder Title: General Manager Phone: (434).636-5492 Is the applicant the owner or operator (or both) of this facility? X owner X operator Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) X facility applicant  it Information. Facility's VPDES permit number (if applicable): VA0028029  |
| a. b. c. d. d.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:     Applicant name: River Ridge Association WWTP     Mailing address:     Street or P.O. Box: P.O. Box 40     City or Town: State: State: Zip: 23919     Contact person: Thomas Crowder     Title: General Manager     Phone:(434) 636-5492     Is the applicant the owner or operator (or both) of this facility?     X owner   |
| a. b. c. d. Perma.   | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:     Applicant name: River Ridge Association WWTP     Mailing address:     Street or P.O. Box: P.O. Box 40     City or Town: Bracey State:VA Zip: 23919     Contact person: Thomas Crowder     Title: _ General Manager     Phone: _(434) 636-5492     Is the applicant the owner or operator (or both) of this facility?     X owner   |
| a. b. c. d. e. Perm  | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:  Applicant name: River Ridge Association WWTP  Mailing address:  Street or P.O. Box: P.O. Box 40  City or Town:Bracey State:VA Zip: 23919  Contact person: Thomas Crowder  Title: _ General Manager  Phone: _(434) 636-5492  Is the applicant the owner or operator (or both) of this facility?  X owner X operator  Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) X facility applicant  it Information.  Facility's VPDES permit number (if applicable):VA0028029  List on this form or an attachment, all other federal, state or local permits or construction approvals received.  |
| a. b. c. d. e.       | Surface disposal site Other (describe):  icant Information. If the applicant is different from the above, provide the following:     Applicant name: River Ridge Association WWTP     Mailing address:     Street or P.O. Box: P.O. Box 40     City or Town: Bracey State: VA Zip: 23919     Contact person: Thomas Crowder     Title: General Manager     Phone:(434) 636-5492     Is the applicant the owner or operator (or both) of this facility?     X owner     X operator     Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)     X facility applicant  it Information.     Facility's VPDES permit number (if applicable): VA0028029     List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: |

#### VPDES PERMIT NUMBER: VA0028029

- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
  - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed. See Attached Map
  - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries. See Attached Map
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. Sludge is accumulated in the aerated lagoon sludge storage zone for extended duration

| Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge               |  |  |  |  |  |
|--|--|--|--|--|--|
| generation, treatment, use or disposal the responsibility of a contractor?YesX_No  |  |  |  |  |  |
| If yes, provide the following for each contractor (attach additional pages if necessary).                                  |  |  |  |  |  |
| Name:  |  |  |  |  |  |
| Mailing address:   |  |  |  |  |  |
| Street or P.O. Box:  |  |  |  |  |  |
| City or Town: State: Zip:  |  |  |  |  |  |
| Phone:   |  |  |  |  |  |
| Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:                         |  |  |  |  |  |
|  |  |  |  |  |  |
| If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to |  |  |  |  |  |
| be provided to the applicant and the respective obligations of the applicant and the contractor(s).                        |  |  |  |  |  |
|  |  |  |  |  |  |

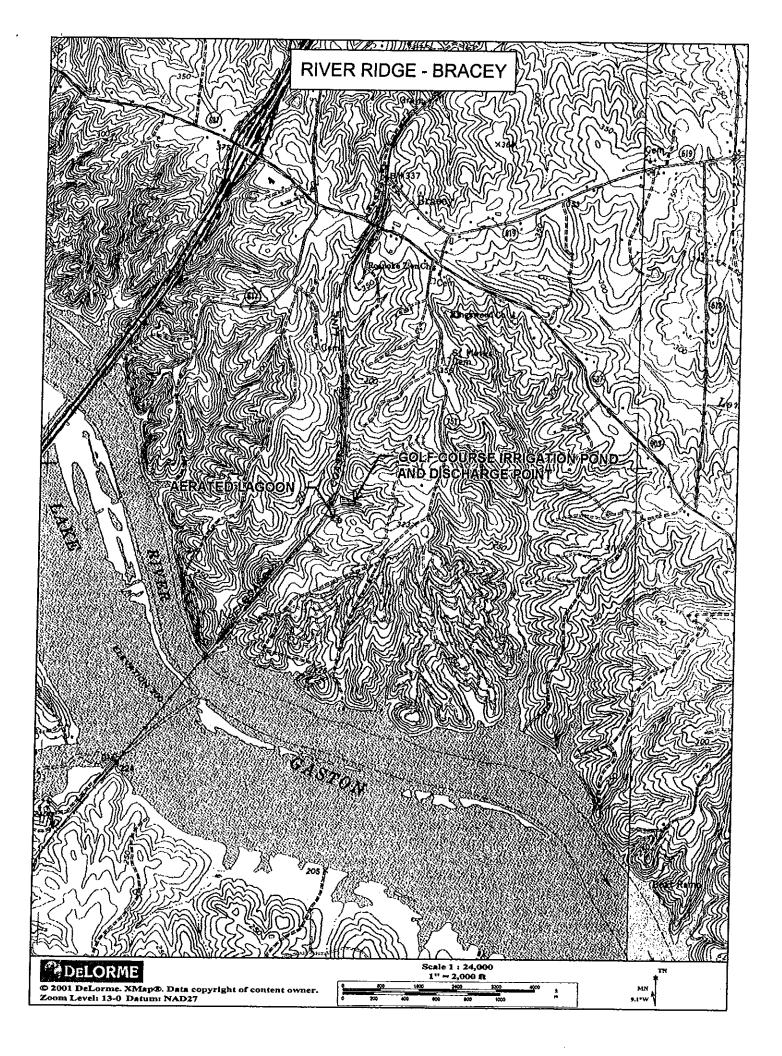
8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. **N/A** 

| POLLUTANT  | CONCENTRATION (mg/kg dry weight) | SAMPLE<br>DATE | ANALYTICAL<br>METHOD | DETECTION LEVEL<br>FOR ANALYSIS |
|------------|----------------------------------|----------------|----------------------|---------------------------------|
| Arsenic    |                                  |                |                      |                                 |
| Cadmium    |                                  |                |                      |                                 |
| Chromium   |                                  |                |                      |                                 |
| Copper     |                                  |                |                      |                                 |
| Lead       |                                  |                |                      |                                 |
| Mercury    |                                  |                |                      |                                 |
| Molybdenum |                                  |                |                      |                                 |
| Nickel     |                                  |                |                      |                                 |
| Selenium   |                                  |                |                      |                                 |
| Zinc       |                                  |                |                      |                                 |

| 9. | Certification. Read and submit the following certification statement with this application. Refer to the instructions to |
|----|--|
|    | determine who is an officer for purposes of this certification. Indicate which parts of the application you have         |
|    | completed and are submitting:  |
|    | _X_Section A (General Information)   |
|    | X Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)                        |

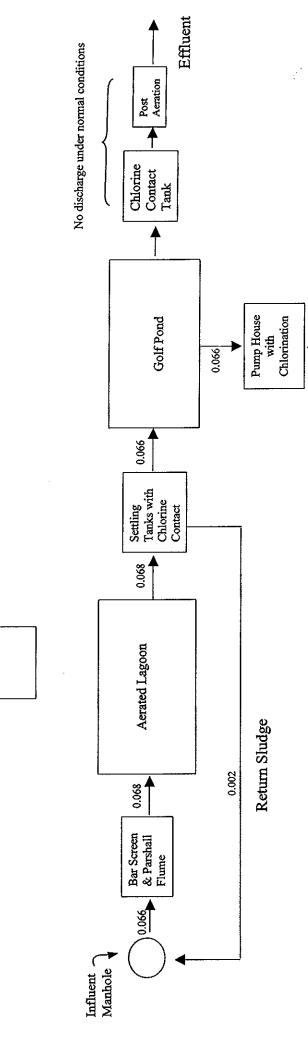
\_\_\_\_Section C (Land Application of Bulk Sewage Sludge)
\_\_\_\_Section D (Surface Disposal)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.



# Process Flow Diagram River Ridge Association, Inc. VPDES Permit # VA 0028029

Operations Building Lab & Cl<sub>2</sub> Room



(434)447-7621 ·FAX (434)447-4257 SOUTH HILL, VIRGINIA 23970 B & B CONSULTANTS, INC 212 E. FERRELL STREET bandb@bandbcons.com P. O. BOX 429 RIVER RIDGE ASSOCIATION, INC. VPDES PERMIT APPLICATION BRACEY, VIRGINIA VA 0028029

Golf Course

990.0

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Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title: Thomas Crowder, General Manager

Signature Thomas Couds Date Signed 11 19-08

Telephone number \_\_\_(434) 636-5492

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

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# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

| 1,     | Amount Generated On Site.  Total dry metric tons per 365-day period generated at your facility: 11 estimated dry metric tons  |
|--------|---|
| 2. N/A | Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary.  a. Facility name:  b. Contact Person:     Title:     Phone ( )  c. Mailing address:     Street or P.O. Box:     City or Town:     City or Town:     State:     Jip:  d. Facility Address:     (not P.O. Box)  e. Total dry metric tons per 365-day period received from this facility:     Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:  |
| 3.     | Treatment Provided at Your Facility.  a. Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AXClass BNeither or unknown  b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:Sludge accumulates on the bottom of the aerated lagoon and golf course irrigation pond where it is stored for many years allowing pathogen die off  c. Which vector attraction reduction option is met for the sewage sludge at your facility?  Option 1 (Minimum 38 percent reduction in volatile solids)  Option 2 (Anaerobic process, with bench-scale demonstration)  Option 3 (Aerobic process, with bench-scale demonstration)  Option 4 (Specific oxygen uptake rate for aerobically digested sludge)  Option 5 (Aerobic processes plus raised temperature)  Option 6 (Raise pH to 12 and retain at 11.5)  Option 7 (75 percent solids with no unstabilized solids)  Option 8 (90 percent solids with unstabilized solids)  X_ None or unknown  d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge: _storage of sludge for extended duration  e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including |
|        | e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: N/A   |
| 4.     | Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One of Vector Attraction Reduction Options 1-8 (EQ Sludge). (If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)  |
| N/A    | a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:  dry metric tons  |
| N/A    | b. Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? YesNo   |

| 5. <b>N/A</b> | Sale or Give-Away in a Bag or Other Container for Application to the Land.  (Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this |  |  |  |  |
|---------------|---|--|--|--|--|
|               | question<br>a.  | If sewage studge is covered in Question 4.)  Total dry metric tons per 365-day period of sewage studge placed in a bag or other container at your facility   |  |  |  |
|               |   | for sale or give-away for application to the land: dry metric tons   |  |  |  |
|               | b.  | Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.  |  |  |  |
| 6. N/A        | Shipme  | ent Off Site for Treatment or Blending.  |  |  |  |
|               | does not  | ete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) |  |  |  |
|               | a.  | Receiving facility name: Wastewater Treatment Plant  |  |  |  |
|               | b.  | Facility contact:  |  |  |  |
|               | 0.  | Title:   |  |  |  |
|               |   | Phone: ( )   |  |  |  |
|               | c.  | Mailing address:   |  |  |  |
|               |   | Street or P.O. Box:  |  |  |  |
|               |   | City or Town: State: Zip:  |  |  |  |
|               | d.  | Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: dry metric   |  |  |  |
|               |   | tons   |  |  |  |
|               | e.  | List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal   |  |  |  |
|               |   | practices:  Permit Number: Type of Permit:   |  |  |  |
|               |   | турсы теппе  |  |  |  |
|               |   |  |  |  |  |
|               | f.  | Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility?No  |  |  |  |
|               |   | Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?   |  |  |  |
|               |   | Class AClass BNeither or unknown   |  |  |  |
|               |   | Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge:   |  |  |  |
|               | g.  | Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge?YesNo  |  |  |  |
|               |   | Which vector attraction reduction option is met for the sewage sludge at the receiving facility?   |  |  |  |
|               |   | Option 1 (Minimum 38 percent reduction in volatile solids)   |  |  |  |
|               |   | Option 2 (Anaerobic process, with bench-scale demonstration)   |  |  |  |
|               |   | Option 3 (Aerobic process, with bench-scale demonstration)   |  |  |  |
|               |   | Option 4 (Specific oxygen uptake rate for aerobically digested sludge)   |  |  |  |
|               |   | Option 5 (Aerobic processes plus raised temperature)   |  |  |  |
|               |   | Option 6 (Raise pH to 12 and retain at 11.5)   |  |  |  |
|               |   | Option 7 (75 percent solids with no unstabilized solids)   |  |  |  |
|               |   | Option 8 (90 percent solids with unstabilized solids)  |  |  |  |
|               |   | None unknown  Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to  |  |  |  |
|               |   | reduce vector attraction properties of sewage sludge:  |  |  |  |
|               | h.  | Does the receiving facility provide any additional treatment or blending not identified in f or g above? YesNo   |  |  |  |
|               |   | If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:  |  |  |  |
|               | i.  | If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility  |  |  |  |

to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.

|    |     | j        | Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?YesNo  |
|----|-----|----------|---|
|    |     | 1-       | If yes, provide a copy of all labels or notices that accompany the product being sold or given away.  |
|    |     | k.       | Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? Yes No. If no, provide description and specification on the vehicle used to                 |
|    |     |          | transport the sewage sludge to the receiving facility.  |
|    |     |          | Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the  |
|    |     |          | week and the times of the day sewage sludge will be transported.  |
| 7. | N/A | Land A   | pplication of Bulk Sewage Sludge.   |
|    |     | •        | te Question 7.a if sewage studge from your facility is applied to the land, unless the sewage studge is covered in Questions 4, 5 or  |
|    |     | 6; compl | ete Question 7.b, e & d only if you are responsible for land application of sewage sludge.)   |
|    |     | a.       | Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons   |
|    |     | b.       | Do you identify all land application sites in Section C of this application?YesNo If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in                                      |
|    |     |          | accordance with the instructions).  |
|    |     | c.       | Are any land application sites located in States other than Virginia?YesNo  |
|    |     |          | If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.                           |
|    |     | d.       | Attach a copy of any information you provide to the owner or lease holder of the land application sites to  |
|    |     | u.       | comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).   |
| 8. | N/A | Surface  | Disposal.   |
|    |     | (Complet | te Question 8 if sewage sludge from your facility is placed on a surface disposal site.)  |
|    |     | a.       | Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: dry metric tons  |
|    |     | b.       | Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo  |
|    |     |          | If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage   |
|    |     |          | sludge to more than one surface disposal site, attach additional pages as necessary.  |
|    |     | C.       | Site name or number:  |
|    |     | d.       | Contact person: Title:  |
|    |     |          | Phone: ( )  |
|    |     |          | Contact is:Site OwnerSite operator  |
|    |     | e.       | Mailing address.  |
|    |     |          | Street or P.O. Box:   |
|    |     |          | City or Town: State: Zip:   |
|    |     | f,       | Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons  |
|    |     | g.       | List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface |
|    |     |          | disposal site:  |
|    |     |          | Permit Number: Type of Permit:  |
|    |     |          |   |
| 9. | N/A | Incinera |   |
|    |     |          | e Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)  |
|    |     | a.       | Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge   |
|    |     | b.       | incinerator: dry metric tons  Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?  |
|    |     |          | YesNo If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send  |
|    |     |          | If he, another questions v   6 for each sortings studge memoration state you do not only or operate. If you solid   |

10.

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|     |    | sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.                                     |
|-----|----|---|
|     | c. | Incinerator name or number:   |
|     | d. | Contact person:   |
|     |    | Title:  |
|     |    | Phone: ( )  |
|     |    | Contact is:Incinerator OwnerIncinerator Operator  |
|     | e. | Mailing address.  |
|     |    | Street or P.O. Box:   |
|     |    | City or Town: State: Zip:   |
|     | f, | Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge                            |
|     |    | incinerator: dry metric tons  |
|     | g. | List on this form or an attachment the numbers of all other federal, state or local permits that regulate the                       |
|     |    | firing of sewage sludge at this incinerator:  |
|     |    | Permit Number: Type of Permit:  |
|     |    |   |
|     |    |   |
|     |    |   |
| N/A | -  | l in a Municipal Solid Waste Landfill.  |
|     |    | te Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information |
|     |    | municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one     |
|     | _  | I solid waste landfill, attach additional pages as necessary.)  |
|     | a. | Landfill name:  |
|     | b. | Contact person:   |
|     |    | Title:  |
|     |    | Phone:  |
|     |    | Contact is:Landfill OwnerLandfill Operator  |
|     | c. | Mailing address.  |
|     |    | Street or P.O. Box:   |
|     |    | City or Town: State: Zip:   |
|     | d. | Landfill location.  |
|     |    | Street or Route #:  |
|     |    | County:   |
|     |    | City or Town: State: Zip:   |
|     | e. | Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill: dry metric tons            |
|     | f. | List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the                           |
|     |    | operation of this municipal solid waste landfill:   |
|     |    | Permit Number: Type of Permit;  |
|     |    |   |
|     |    |   |
|     | g. | Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9                                |
|     | _  | VAC 20-80-10 et seg., concerning the quality of materials disposed in a municipal solid waste landfill?                             |
|     |    | YesNo   |
|     | h. | Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid                         |
|     |    | Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo   |
|     | i. | Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill                       |
|     |    | be watertight and covered? Yes No   |
|     |    | Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week                      |
|     |    | and time of the day sewage sludge will be transported.  |
|     |    |   |

### VPDES PERMIT NUMBER: VA0028029

### SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

N/A

Complete this section for sewage studge that is land applied unless any of the following conditions apply:

The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or

The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or

| Comple |                      | ovide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).<br>C for every site on which the sewage sludge that you reported in B.7 is land applied. |  |  |  |  |  |
|--------|----------------------|--|--|--|--|--|--|
| 1.     | Identi               | ication of Land Application Site.  |  |  |  |  |  |
|        | a.                   | Site name or number:   |  |  |  |  |  |
|        | b.                   | Site location (Complete i and ii)  |  |  |  |  |  |
|        |                      | i. Street or Route#:   |  |  |  |  |  |
|        |                      | County:  |  |  |  |  |  |
|        |                      | City or Town: State: Zip:  |  |  |  |  |  |
|        |                      | ii, Latitude: Longitude:   |  |  |  |  |  |
|        |                      | Method of latitude/longitude determination   |  |  |  |  |  |
|        |                      | USGS map Filed survey Other  |  |  |  |  |  |
|        | c.                   | Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable that shows the site location.   |  |  |  |  |  |
| 2.     | Owne                 | Information.   |  |  |  |  |  |
| _,     | a.                   | Are you the owner of this land application site?YesNo  |  |  |  |  |  |
|        | b.                   | If no, provide the following information about the owner:  |  |  |  |  |  |
|        |                      | Name:  |  |  |  |  |  |
|        |                      | Street or P.O. Box:  |  |  |  |  |  |
|        |                      | City or Town: State: Zip:  |  |  |  |  |  |
|        |                      | Phone: ( )   |  |  |  |  |  |
| 3.     | Applier Information: |  |  |  |  |  |  |
|        | a.                   |  |  |  |  |  |  |
|        |                      | application site?YesNo   |  |  |  |  |  |
|        | b.                   | If no, provide the following information for the person who applies the sewage sludge:   |  |  |  |  |  |
|        |                      | Name:  |  |  |  |  |  |
|        |                      | Street or P.O. Box:  |  |  |  |  |  |
|        |                      | City or Town: State: Zip:  |  |  |  |  |  |
|        |                      | Phone: ( )   |  |  |  |  |  |
|        | c.                   | List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person   |  |  |  |  |  |
|        |                      | who applies sewage sludge to this land application site:   |  |  |  |  |  |
|        |                      | Permit Number: Type of Permit:   |  |  |  |  |  |
|        |                      |  |  |  |  |  |  |
|        |                      |  |  |  |  |  |  |
| 4.     | Site T               | pe. Identify the type of land application site from among the following:   |  |  |  |  |  |
|        |                      | icultural landReclamation siteForest   |  |  |  |  |  |
|        |                      | lic contact siteOther. Describe  |  |  |  |  |  |
| 5.     | Vooto                | Attraction Reduction.  |  |  |  |  |  |
| J.     |                      | y vector attraction reduction requirements met when sewage sludge is applied to the land application site?   |  |  |  |  |  |
|        |                      | sNo If yes, answer a and b.  |  |  |  |  |  |
|        | a.                   | Indicate which vector attraction reduction option is met:  |  |  |  |  |  |
|        |                      | Option 9 (Injection below land surface)  |  |  |  |  |  |
|        |                      | Option 10 (Incorporation into soil within 6 hours)   |  |  |  |  |  |
|        | b.                   | Describe, on this form or on another sheet of paper, any treatment processes used at the land application site   |  |  |  |  |  |

to reduce the vector attraction properties of sewage sludge:

6.

| Cumu  | lative Loadings and Remaining Allotments.  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|
|       | olete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates   |  |  |  |  |  |  |  |
| (CPLI | ts) - see instructions.)   |  |  |  |  |  |  |  |
| a.    | Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this |  |  |  |  |  |  |  |
|       | site since July 20, 1993?YesNo   |  |  |  |  |  |  |  |
|       | If no, sewage sludge subject to the CPLRs may not be applied to this site.   |  |  |  |  |  |  |  |
|       | If yes, provide the following information:   |  |  |  |  |  |  |  |
|       | Permitting authority:  |  |  |  |  |  |  |  |
|       | Contact person:  |  |  |  |  |  |  |  |
|       | Phone:( )  |  |  |  |  |  |  |  |
| b.    | Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20,  |  |  |  |  |  |  |  |
|       | 1993?YesNo If no, skip the rest of Question 6. If yes, answer questions c - e.   |  |  |  |  |  |  |  |
| c.    | Site size, in hectares: (one hectare = 2.471 acres)  |  |  |  |  |  |  |  |
| d.    | Provide the following information for every facility other than yours that is sending or has sent sewage sludge  |  |  |  |  |  |  |  |
|       | subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to   |  |  |  |  |  |  |  |
|       | this site, attach additional pages as necessary.   |  |  |  |  |  |  |  |
|       | Facility name:   |  |  |  |  |  |  |  |
|       | Facility contact:  |  |  |  |  |  |  |  |
|       | Title:   |  |  |  |  |  |  |  |
|       | Phone: ( )   |  |  |  |  |  |  |  |
|       | Mailing address.   |  |  |  |  |  |  |  |
|       | Street or P.O. Box:  |  |  |  |  |  |  |  |
|       | City or Town: State: Zip:  |  |  |  |  |  |  |  |
| e.    | Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:  |  |  |  |  |  |  |  |
|       | Cumulative loading Allotment remaining   |  |  |  |  |  |  |  |
|       | Arsenic  |  |  |  |  |  |  |  |
|       | Cadmium  |  |  |  |  |  |  |  |
|       | Copper   |  |  |  |  |  |  |  |
|       | Lead   |  |  |  |  |  |  |  |
|       | Mercury  |  |  |  |  |  |  |  |
|       | Nickel   |  |  |  |  |  |  |  |
|       | Selenium   |  |  |  |  |  |  |  |
|       | Zinc   |  |  |  |  |  |  |  |

Complete Questions 7-12 below only if you apply sewage studge, or you are responsible for land application of sewage studge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as CaCO<sub>3</sub>\* (mg/kg)

\* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO<sub>3</sub>.

8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
  - 1) Water wells, abandoned or operating
  - 2) Surface waters
  - 3) Springs
  - 4) Public water supply(s)
  - 5) Sinkholes
  - 6) Underground and/or surface mines
  - 7) Mine pool (or other) surface water discharge points
  - 8) Mining spoil piles and mine dumps
  - 9) Quarry(s)
  - 10) Sand and gravel pits
  - 11) Gas and oil wells
  - 12) Diversion ditch(s)
  - 13) Agricultural drainage ditch(s)
  - 14) Occupied dwellings, including industrial and commercial establishments
  - 15) Landfills or dumps
  - 16) Other unlined impoundments
  - 17) Septic tanks and drainfields
  - 18) Injection wells
  - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
  - 1) Maximum and minimum percent slopes
  - 2) Depressions on the site that may collect water
  - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
  - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

| 1 | 11 | l. | Ground | Water   | λ/  | loni | tor | inα |
|---|----|----|--------|---------|-----|------|-----|-----|
| J |    | L. | Oround | 11 UCCI | IT. | LOIL | LV. | me. |

Are any ground water monitoring data available for this land application site? \_\_\_\_Yes \_\_\_\_No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U.
   S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

### Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

  Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1). Soil symbol
  - 2). Soil series, textural phase and slope range
  - 3). Depth to seasonal high water table
  - 4). Depth to bedrock
  - 5). Estimated soil productivity group (for the proposed crop rotation)

f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

# FACILITY NAME: River Ridge Association Inc. VPDES PERMIT NUMBER: VA0028029 N/A SEWAGE SLUDGE APPLICATION AGREEMENT

| This           | sewage sludge application agreement is mad  | de on this date between, referred to here as the "Permittee".   |  |
|----------------|---|---|--|
| reteri         | red to here as randowner, and   | , referred to here as the Perintitee .  |  |
|                |   | wn on the map attached as Exhibit A and designated there as owner's land"). Permittee agrees to apply and landowner agrees to comply with   |  |
| certal<br>by V | in permit requirements following application PDES permit number   | owner's land"). Permittee agrees to apply and landowner agrees to comply with n of sewage sludge on landowner's land in amounts and in a manner authorized which is held by the Permittee.  |  |
| cond<br>publi  | itioning to the property. Moreover, landov  | oplication of sewage sludge will be beneficial in providing fertilizer and soil when acknowledges having been expressly advised that, in order to protect to be adhered to when sewage sludge receives Class B treatment for pathogen |  |
| 1.             | Food crops with harvested parts that too not be harvested for 14 months after app   | ach the sewage sludge/soil mixture and are totally above the land surface shall plication of sewage sludge;   |  |
| 2.             |   | the surface of the land shall not be harvested for 20 months after application of remains on the land surface for four months or longer prior to incorporation  |  |
| 3.             |   | the surface of the land shall not be harvested for 38 months after application of remains on the land surface for less than four months prior to incorporation  |  |
| 4.             | Food crops, feed crops, and fiber crops   | shall not be harvested for 30 days after application of sewage sludge;  |  |
| 5.             | Animals shall not be grazed on the land   | for 30 days after application of sewage sludge;   |  |
| 6.             | Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board; |   |  |
| 7.             | Public access to land with a high potenti sewage sludge;  | ial for public exposure shall be restricted for one year after application of   |  |
| 8.             | Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.  |   |  |
| 9.             | Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).  |   |  |
| specif         |   | er's designee of the proposed schedule for sewage sludge application and landowner's land. This agreement may be terminated by either party upon  |  |
|                | Landowner:  | Permittee:  |  |
|                | Signature   | Signature   |  |

Mailing Address

Mailing Address

### SECTION D. SURFACE DISPOSAL

| Ν. | Λ. |
|----|----|
|    |    |

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

| 1. | Infor  | mation on Active Sewage Sludge Units.   |  |  |  |  |
|----|--------|---|--|--|--|--|
|    | a.     | Unit name or number:  |  |  |  |  |
|    | b.     | Unit location   |  |  |  |  |
|    |        | i. Street or Route#:  |  |  |  |  |
|    |        | County:   |  |  |  |  |
|    |        | City or Town: State: Zip:   |  |  |  |  |
|    |        | ii. Latitude: Longitude:  |  |  |  |  |
|    |        |   |  |  |  |  |
|    |        | Method of latitude/longitude determination  |  |  |  |  |
|    |        | USGS map Filed survey Other   |  |  |  |  |
|    | c.     | Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. |  |  |  |  |
|    | .1     |   |  |  |  |  |
|    | d.     | Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:dry metric tons.                      |  |  |  |  |
|    |        |   |  |  |  |  |
|    | e.     | Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:  dry metric tons.             |  |  |  |  |
|    | f.     | Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of  |  |  |  |  |
|    | 1.     | $1 \times 10^{-7}$ cm/sec?YesNo If yes, describe the liner or attach a description.   |  |  |  |  |
|    |        | 1 x 10 chasee: res ros if yes, describe the file of attach a description.   |  |  |  |  |
|    | œ      | Does the active sewage sludge unit have a leachate collection system?YesNo  |  |  |  |  |
|    | g.     | If yes, describe the leachate collection system or attach a description. Also, describe the method used for                             |  |  |  |  |
|    |        | leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:                                 |  |  |  |  |
|    |        | reachate disposar and provide the numbers of any federal, state of focal permits for feachate disposar.                                 |  |  |  |  |
|    | h,     | If you answered no to either f or g, answer the following:  |  |  |  |  |
|    | 11,    | Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface                             |  |  |  |  |
|    |        | 15 the boundary of the active sewage studge that less than 150 meters from the property line of the surface                             |  |  |  |  |
|    |        | disposal site?YesNo If yes, provide the actual distance in meters:  |  |  |  |  |
|    | i.     | Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons  |  |  |  |  |
|    | •      | Anticipated closure date for active sewage sludge unit, if known:(MM/DD/YY  |  |  |  |  |
|    |        | Provide with this application a copy of any closure plan developed for this active sewage sludge unit.                                  |  |  |  |  |
| 2. |        | ge Sludge from Other Facilities.  |  |  |  |  |
|    |        | vage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo   |  |  |  |  |
|    | If yes | , provide the following information for each such facility, attach additional sheets as necessary.                                      |  |  |  |  |
|    | a.     | Facility name:  |  |  |  |  |
|    | b.     | Facility contact:   |  |  |  |  |
|    |        | Title:  |  |  |  |  |
|    |        | Phone: ( )  |  |  |  |  |
|    |        | Mailing address.  |  |  |  |  |
|    | c.     |   |  |  |  |  |
|    |        | Street or P.O. Box:   |  |  |  |  |
|    | _      | City or Town:State:Zip:   |  |  |  |  |
|    | d.     | List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other                             |  |  |  |  |
|    |        | federal, state or local permits that regulate the facility's sewage sludge management practices:  |  |  |  |  |
|    |        | Permit Number: Type of Permit:  |  |  |  |  |
|    |        |   |  |  |  |  |
|    |        |   |  |  |  |  |
|    | e.     | Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?   |  |  |  |  |
|    |        | Class AClass BNeither or unknown  |  |  |  |  |
|    | f.     | Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to                              |  |  |  |  |
|    |        | reduce nathogens in sewage sludge:  |  |  |  |  |

| FACILITY NAME: River Ridge Association Inc. |  |   | VPDES PERMIT NUMBER: VA0028029                   |  |  |  |
|---|--|---|--|--|--|--|
|   | g.   | Which vector attraction reduction option is achieved before   | sewage sludge leaves the other facility?         |  |  |  |
|   |  | Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration)                                       |  |  |  |  |
|   |  |   |  |  |  |  |
|   |  | Option 3 (Aerobic process, with bench-scale demonstration)  |  |  |  |  |
|   |  | Option 4 (Specific oxygen uptake rate for aerobically digested sludge)  |  |  |  |  |
|   |  | Option 5 (Aerobic processes plus raised temperature)  |  |  |  |  |
|   |  | Option 6 (Raise pH to 12 and retain at 11.5)  |  |  |  |  |
|   |  | Option 7 (75 percent solids with no unstabilized solids)  |  |  |  |  |
|   |  | Option 8 (90 percent solids with unstabilized solids)   |  |  |  |  |
|   | 1.   | None or unknown   | nt nyonggan yand at the other facility to yadyas |  |  |  |
|   | h.   | Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge: |  |  |  |  |
|   | i.   | Describe, on this form or another sheet of paper, any other se  | ayyaga aludaa tuaatmant aatiyitiga naufayyad hy  |  |  |  |
|   | 1,   | the other facility that are not identified in e - h above:  | swage studge treatment activities performed by   |  |  |  |
| 3.  | Vector   | Attraction Reduction.   |  |  |  |  |
| J.  | a.   | Which vector attraction reduction option, if any, is met when   | sewage sludge is placed on this active sewage    |  |  |  |
|   |  | sludge unit?  | vermee and a franch and and and                  |  |  |  |
|   |  | Option 9 (Injection below land surface)   |  |  |  |  |
|   |  | Option 10 (Incorporation into soil within 6 hours)  |  |  |  |  |
|   |  | Option 11 (Covering active sewage sludge unit daily)  |  |  |  |  |
|   | b.   | Describe, on this form or another sheet of paper, any treatme unit to reduce vector attraction properties of sewage sludge:                                   | nt processes used at the active sewage sludge    |  |  |  |
|   |  |   |  |  |  |  |
| 4.  | Ground Water Monitoring.                                 |   |  |  |  |  |
|   | a. Is ground water monitoring currently conducted at thi |   |  |  |  |  |
|   |  | monitoring data otherwise available for this active sewage slu  |  |  |  |  |
|   |  | If yes, provide a copy of available ground water monitoring of  |  |  |  |  |
|   |  | well locations, the approximate depth to ground water, and the  | ne ground water monitoring procedures used to    |  |  |  |
|   | 1.   | obtain these data.  | is active covered abodes smit9                   |  |  |  |
|   | b.   | Has a ground water monitoring program been prepared for the YesNo If yes, submit a copy of the ground water mon   |  |  |  |  |
|   |  | Have you obtained a certification from a qualified ground wa  |  |  |  |  |
|   | c.   | sewage sludge unit has not been contaminated?YesN   |  |  |  |  |
|   |  | If yes, submit a copy of the certification with this application  |  |  |  |  |
|   |  | • •   |  |  |  |  |
| 5.  |  | ecific Limits.  | 1 4  |  |  |  |
|   | Are you  | seeking site-specific pollutant limits for the sewage sludge pla  | aced on the active sewage sludge unit?           |  |  |  |

\_\_Yes \_\_No If yes, submit information to support the request for site-specific pollutant limits with this application.